

GIS

Geographic
Information
Systems

Do you like Maps? Do you Like Computers? Then You'll Like GIS (Geographic Information Systems)!

Two, 3-unit classes, each one only one-night a week for 2011 – 2012

INTRODUCTION TO GIS

Geography 125 (Fall Semester, 16 Monday nights, excluding holidays) covers fundamental GIS concepts, including what is a GIS? what is GIS data? how to browse and edit these data and how to present them clearly and efficiently in maps. Using lecture with hands-on computer time, students learn using [ESRI](#) ArcGIS software, [Google Earth](#), and [Garmin](#) and [Trimble](#) GPS units. Includes a class project where students apply GIS/GPS to their area of interest.
(Transfer Credit: 3 units CSU/UC)

INTRO TO SPATIAL ANALYSIS

Geography 127 (Spring Semester, 16 Monday nights, excluding holidays) explores the true power of GIS – Spatial Analysis. Using lecture and hands-on computer time with ESRI's [Spatial Analyst™](#), students learn more about raster data and the hidden patterns, relationships and previously unknown stories that can be revealed in this spatial data. The class also includes a project where students apply and present spatial analysis within their area of interest.
(Transfer Credit: 3 units CSU)

Learn about GIS and GPS technology for as little as \$215!*

(includes textbook and a 180-day trial version of ESRI's GIS software)

*Similar courses taught by private companies can cost several hundred to over \$1,000.

First the Map ... then the Personal Computer ... now the iPhone!



 **Trimble**



 **GARMIN**



Geography isn't what it used to be!

For more information, please contact Nicholas Salcedo,
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COLLEGE OF
MARIN

Frequently asked questions regarding GIS.

What is GIS?

GIS is a system designed to capture, store, manipulate, analyze, manage and present all types of geographically referenced data. In the simplest terms, GIS is the merging of cartography, statistical analysis, and database technology (Wikipedia 2011). Computer GIS is a collection of computer hardware, software, and geographic, or spatial, data used in capturing, managing, analyzing, and displaying all forms of geographically referenced information (ESRI 2011).

Why Use GIS?

GIS is much more than mapping software. Maps are only one of [three views of a GIS](#). When deployed with a clear strategy, GIS is a technology that can change an organization fundamentally and positively (ESRI 2010).

What does a GIS Specialist Do?

Gather, analyze and display spatial data (i.e. census, field data, satellite, GPS); Create maps; Analyze spatial data for geographic relationships and statistics; Prepare metadata; and Operate and maintain GIS system hardware and software (CA Employment Development Dept. 2006).

What Skills are Important?

Geography; Computer Science; Communication; Analytical Skills; Mathematics; Information Gathering; and Systems Evaluation (CA Employment Development Dept. 2006).

How Much does a GIS Specialist Position Pay?

In 2011, average annual salaries ranged from \$35,902/yr. to \$66,616/yr. (www.payscale.com).



[Geographic Information Systems \(GIS\) Specialist Salary Report \(United States\)](#)

What's the Job Market Like for GIS Specialists?

Careers in GIS are among the fastest growing and most in-demand professions ([CartoGIS.org](#) 2011). The booklet entitled "[Careers in Cartography and GIS](#)," by CartoGIS.org, provides a summary of the industry and job market. Also, the BAAMA hosts a list of [Current jobs in the SF Bay area](#).